

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

GFRC Cladding Systems, LLC 118 North Shiloh Road Garland, Texas 75042

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Class 2" Glass Fiber Reinforced Concrete Wall Panels

APPROVAL DOCUMENT: Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision B1 dated 05/11/2011, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #11-0513.03 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

Heling A. Melon 02/23/2012

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

NOA No. 11-1110.07 Expiration Date: 05/31/2016 Approval Date: 02/23/2012

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GFRC Cladding Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-0216.05

A. DRAWINGS

1. Drawing No. 1037, sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated January 29, 2001, signed and sealed by Warren W. Schaefer, P.E. on May 1, 2001.

B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on GFRC Glass Fiber Reinforced Concrete Wall Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0250-1203-00, dated February 14, 2001, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Calculations, dated February 2, 2001, 3 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on February 5, 2001.

D. MATERIAL CERTIFICATIONS

- 1. Daracem ML 500 Superplasticizer ASTM Type A and Type F by Grace Construction Products.
- 2. Technical data and specifications.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0901.03

A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 01/29/2001, signed and sealed by Warren W. Schaefer, P.E. on 08/17/2005.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., stating that he is still in the engineering business, dated January 13, 2006.

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 11-1110.07

> Expiration Date: 05/31/2016 Approval Date: 02/23/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0513.03

A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision B1 dated 05/11/2011, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on GFRC Glass Fiber Reinforced Concrete Wall Panel, prepared by Hurricane Test Laboratory, Inc., Report No. T250-0401-11, dated May 09, 2011, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance department.

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated May 11, 2011, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2007 Edition.

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 1037, titled "Class 2 Glass Fiber Reinforced Concrete Wall Panels", sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P.A., revision B1 dated 05/11/11, signed and sealed by Warren W. Schaefer, P.E., on 02/06/12.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 11-1110.07

Expiration Date: 05/31/2016 Approval Date: 02/23/2012

GFRC Cladding Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. None.

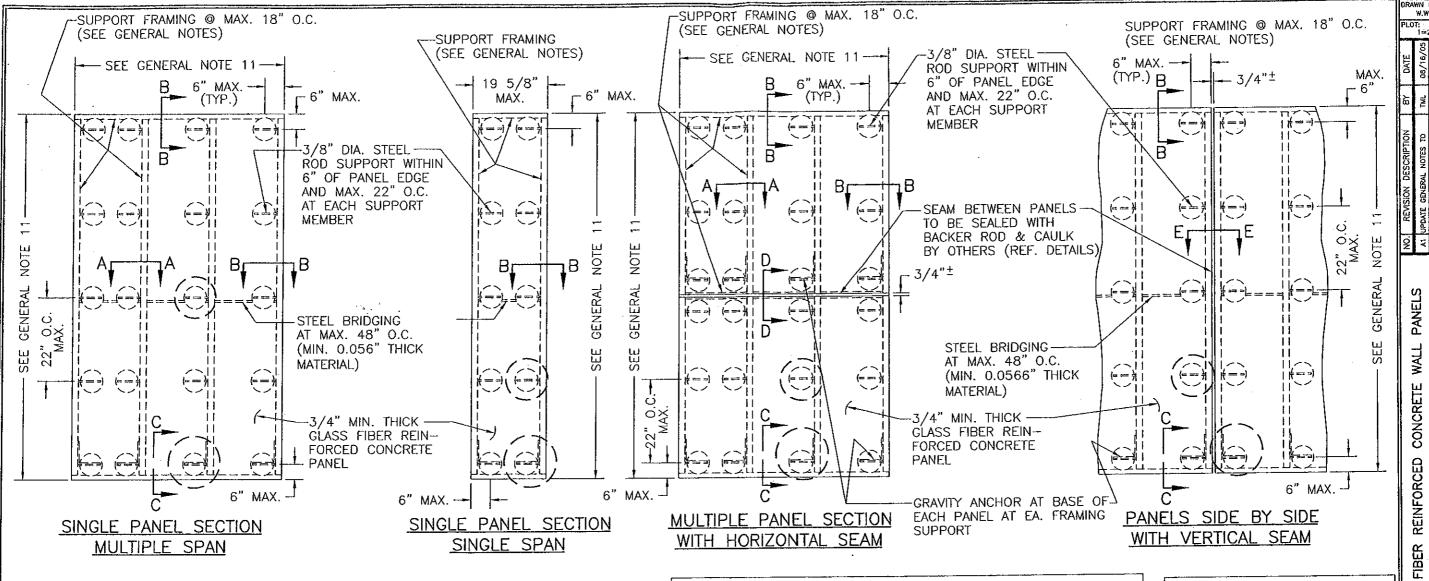
F. STATEMENTS

1. Letter from W. W. Schaefer Engineering & Consulting, P.A., dated 11/04/11, signed and sealed by Warren W. Schaefer, P.E., stating that this product is in compliance with the Florida Building Code, 2007 & 2010 Editions.

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 11-1110.07

Expiration Date: 05/31/2016 Approval Date: 02/23/2012



GENERAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE PANELS.
- THIS PANEL SYSTEM HAS BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ)
- THE PANELS AND THEIR 3/8" STEEL ROD ATTACHMENT TO THE FRAMING/STRUCTURE ARE PART OF THIS NOTICE OF ACCEPTANCE. ALL SUPPORTING STUDS OR STEEL FRAMING MEMBERS ARE NOT PART OF THIS APPROVAL & THEY SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT FOR EACH JOB.
- ALL SUPPORT FRAMING SHALL BE MIN. 4" X 0.056" THK. (Fy = 50 ksi.) STUDS WITH 1 5/8" FLANGES & 1/2" RETURNS AND MIN. 4" X 0.056" THK. TRACK WITH 1 1/4" FLANGES.
- MAXIMUM ALLOWABLE DEFLECTION FOR THIS ASSEMBLY SHALL BE L/360.
- DETAILS ON SHEETS 2 THROUGH 4 ARE TYPICAL AND SHOW INTENT TO PREVENT WATER INFILTRATION INTO AND BEHIND THE SYSTEM.
- THIS SYSTEM IS A LARGE MISSILE IMPACT APPROVED SYSTEM.
- THIS WALL PANEL SYSTEM SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAM ACTION OF WALL TO STRUCTURE.
- 9. PANEL SIZES ARE LIMITED BY SHIPPING & HANDLING REQUIREMENTS (TYPICALLY LIMITED TO 12 FT. IN ONE DIRECTION) AND/OR JOB REQUIREMENTS ONLY AND ARE NOT LIMITED TO THE PRODUCT REVISED 55 5/8" X 96" SIZES TESTED.

as complying with the Florida **Building Code** Acceptance No ||-||0.67 Expiration Date 05/31/2016

PANEL SPECIFICATIONS

BRIEF DESCRIPTION:

ONTO THE MOLD.

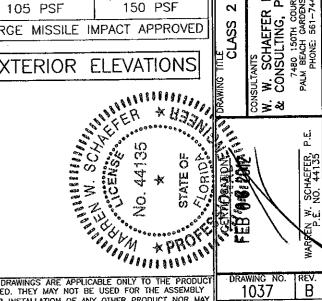
GLASS FIBER REINFORCED CONCRETE (GFRC) PANEL WITH MIN. THICKNESS = 3/4" MANUFACTURED BY THE SPRAY-UP PROCESS USING SPECIAL ALKALI RESISTANT GLASS FIBERS THAT ARE CHOPPED AND SPRAYED ONTO A MOLD WITH AN APPROPRIATE CEMENT/AGGREGATE SLURRY. A 20 OZ. HEAVY WEIGHT GLASS FIBER ALKALI RESISTANT MESH BY BAY MILLS IS EMBEDDED INTO PANEL 1/4" OFF THE OUTER PANEL FACE.

MIX DESIGN	
AMOUNT	
94 LBS	
94 LBS	
26 LBS	
11 LBS	
4.5% BY WEIGHT MIN. OF TOTAL MIX	
0-8 OZ. AS REQ'D TO OBTAIN CORRECT SLUMP TO PUMP	

AFTER MIXING, SLURRY IS PUMPED THROUGH A HOSE TO A CONCENTRIC SPRAY GUN, WHERE THE CHOPPED GLASS FIBER IS ADDED & SPRAYED

ALLOWABLE DES	IGN PRESSURE
POSITIVE	NEGATIVE
105 PSF	150 PSF
LARGE MISSILE IMPACT APPROVED	

EXTERIOR ELEVATIONS



CHECKED 8Y:

DATE: 01/29/01

SHILOH ROAD XAS 75042 1-9000

CLADDING

GFRC

ENGINEERING P.A. (CA 6809)

SHEET NO.

OF

GLASS

N

CLASS

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

